

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the applications.

## **LISTING OF CLAIMS:**

1. (Currently Amended) A sintering method for a W-Cu composite material without exuding of Cu comprising the steps of:

holding the a W-Cu composite material ~~prepared by compacting a W-Cu composite powder~~ for 0.5[[~]] -10 hours at 800[[~]] -1083°C (~~except 1083°C~~) ~~which is a Cu solid phase temperature range~~ under a reduction temperature atmosphere; and

sintering the W-Cu composite material by increasing temperature to 1200[[~]] -1400°C ~~and thereby cooling~~ without a holding time.

2. (Currently Amended) A sintering method for a W-Cu composite material without exuding of Cu comprising the steps of:

holding the a W-Cu composite material ~~prepared by compacting a W-Cu composite powder~~ for 0.5[[~]] -10 hours at 1083[[~]] -1150°C (~~except 1083°C~~) ~~which is just above a Cu melting point~~ under a reduction temperature atmosphere; and

sintering the W-Cu composite material by increasing temperature to 1200[[~]] -1400°C ~~and thereby cooling~~ without a holding time.

3. (Currently Amended) The method of claim 1 ~~or 2~~, wherein the W-Cu composite powder ~~prepared by a method disclosed in the Korean patent application No. 24857 in 2002~~ is prepared by mixing  $\text{WO}_3/\text{WO}_{2.9}$  with  $\text{CuO}/\text{Cu}_2\text{O}$ , milling, and performing a heat treatment for reduction at a hydrogen atmosphere, and has a round shape of a certain size that W powder

surrounds Cu powder.

**Please add the following new claims:**

4. (New) The method of claim 2, wherein the W-Cu composite powder is prepared by mixing  $\text{WO}_3/\text{WO}_{2.9}$  with  $\text{CuO}/\text{Cu}_2\text{O}$ , milling, and performing a heat treatment for reduction at a hydrogen atmosphere, and has a round shape of a certain size that W powder surrounds Cu powder.

5. (New) The method of claim 1, wherein the W-Cu composite is prepared by compacting a W-Cu composite powder.

6. (New) The method of claim 2, wherein the W-Cu composite is prepared by compacting a W-Cu composite powder.